Forest Ecology and Management, 62 (1993) 374–375
Elsevier Science Publishers B.V., Amsterdam

Contents of *Forest Ecology and Management*, Volume 62

VOL. 62 NOS. 1–4 **DECEMBER 1993**

Thinning and climate effects on growth of beech (*Fagus sylvatica* L.) in experimental stands
N.L. Goff and J.-M. Ottorini (Champenoux, France) 1
Dynamic gene conservation for uncertain futures
G. Eriksson (Uppsala, Sweden), G. Namkoong and J.H. Roberds (Raleigh, NC, USA) 15
Crown efficiency of oak standards as affected by mistletoe and coppice removal
H. Sterba, F. Andrae and F. Pambudhi (Vienna, Austria) 39
Planning of forest plantation investments with the aid of linear programming: a case study of Sao Hill Forest, Tanzania
A.S.M. Mgeni (Morogoro, Tanzania) and C. Price (Bangor, UK) 51
Growth and biomass production of young *Grevillea robusta* provenances in Rwanda
A. Kalinganire and J.B. Hall (Bangor, UK) 73
Canopy arthropods on Scots pine: influence of season and stand age on community structure and the position of sawflies (Diprionidae) in the community
J. Simandl (České Budějovice, Czech Republic) 85
Recovery of *Acacia auriculiformis* from fire damage
N.A.A. Shukor (Selangor, Malaysia) 99
Mortality and growth of a commercial hardwood 'el cativo', *Prioria copaifera*, in Panama
R. Condit, S.P. Hubbell and R.B. Foster (Balboa, Panama) 107
Identifying fast-growing native trees from the Neotropics using data from a large, permanent census plot
R. Condit, S.P. Hubbell and R.B. Foster (Balboa, Panama) 123
A laboratory study of the effect of temperature on red pine seed germination
M.D. Flannigan (Chalk River, Ont., Canada) and F.I. Woodward (Sheffield, UK) 145
Changes in growth allocation owing to competition for light in young fertilized Norway spruce trees
U. Nilsson (Alnarp, Sweden) and J.-E. Hällgren (Umeå, Sweden) 157
Productivity of needles and allocation of growth in young Scots pine trees of different competitive status
U. Nilsson (Alnarp, Sweden) and A. Albrektson (Umeå, Sweden) 173
Stem deformation in fast grown *Pinus radiata*: an investigation of causes
N.D. Turvey, G.M. Downes (Creswick, Vic., Australia), P. Hopmans (Kew, Vic., Australia), N. Stark (Missoula, MT, USA), B. Tomkins (Kew, Vic., Australia) and H. Rogers (Aberdeen, UK) 189
Response to nutrients in *Eucalyptus grandis*. 1. Biomass accumulation
R.N. Cromer (Sandy Bay, Tas., Australia), D.M. Cameron (Bangkok, Thailand), S.J. Rance (Wembley, W.A., Australia), P.A. Ryan (Gympie, Qld., Australia) and M. Brown (Paysandu, Uruguay) 211
Response to nutrients in *Eucalyptus grandis*. 2. Nitrogen accumulation
R.N. Cromer (Sandy Bay, Tas., Australia), D.M. Cameron (Bangkok, Thailand), S.J. Rance (Wembley, W.A., Australia), P.A. Ryan (Gympie, Qld., Australia) and M. Brown (Paysandú, Uruguay) 231
Evaluation and diagnosis of tree nutritional status in Chinese-fir (*Cunninghamia lanceolata*

Forest Ecology and Management, 62 (1993) 374–375
Elsevier Science Publishers B.V., Amsterdam

Contents of *Forest Ecology and Management*, Volume 62

VOL. 62 NOS. 1–4 **DECEMBER 1993**

Thinning and climate effects on growth of beech (*Fagus sylvatica* L.) in experimental stands
N.L. Goff and J.-M. Ottorini (Champenoux, France) 1
Dynamic gene conservation for uncertain futures
G. Eriksson (Uppsala, Sweden), G. Namkoong and J.H. Roberds (Raleigh, NC, USA) 15
Crown efficiency of oak standards as affected by mistletoe and coppice removal
H. Sterba, F. Andrae and F. Pambudhi (Vienna, Austria) 39
Planning of forest plantation investments with the aid of linear programming: a case study of Sao Hill Forest, Tanzania
A.S.M. Mgeni (Morogoro, Tanzania) and C. Price (Bangor, UK) 51
Growth and biomass production of young *Grevillea robusta* provenances in Rwanda
A. Kalinganire and J.B. Hall (Bangor, UK) 73
Canopy arthropods on Scots pine: influence of season and stand age on community structure and the position of sawflies (Diprionidae) in the community
J. Simandl (České Budějovice, Czech Republic) 85
Recovery of *Acacia auriculiformis* from fire damage
N.A.A. Shukor (Selangor, Malaysia) 99
Mortality and growth of a commercial hardwood 'el cativo', *Prioria copaifera*, in Panama
R. Condit, S.P. Hubbell and R.B. Foster (Balboa, Panama) 107
Identifying fast-growing native trees from the Neotropics using data from a large, permanent census plot
R. Condit, S.P. Hubbell and R.B. Foster (Balboa, Panama) 123
A laboratory study of the effect of temperature on red pine seed germination
M.D. Flannigan (Chalk River, Ont., Canada) and F.I. Woodward (Sheffield, UK) 145
Changes in growth allocation owing to competition for light in young fertilized Norway spruce trees
U. Nilsson (Alnarp, Sweden) and J.-E. Hällgren (Umeå, Sweden) 157
Productivity of needles and allocation of growth in young Scots pine trees of different competitive status
U. Nilsson (Alnarp, Sweden) and A. Albrektson (Umeå, Sweden) 173
Stem deformation in fast grown *Pinus radiata*: an investigation of causes
N.D. Turvey, G.M. Downes (Creswick, Vic., Australia), P. Hopmans (Kew, Vic., Australia), N. Stark (Missoula, MT, USA), B. Tomkins (Kew, Vic., Australia) and H. Rogers (Aberdeen, UK) 189
Response to nutrients in *Eucalyptus grandis*. 1. Biomass accumulation
R.N. Cromer (Sandy Bay, Tas., Australia), D.M. Cameron (Bangkok, Thailand), S.J. Rance (Wembley, W.A., Australia), P.A. Ryan (Gympie, Qld., Australia) and M. Brown (Paysandu, Uruguay) 211
Response to nutrients in *Eucalyptus grandis*. 2. Nitrogen accumulation
R.N. Cromer (Sandy Bay, Tas., Australia), D.M. Cameron (Bangkok, Thailand), S.J. Rance (Wembley, W.A., Australia), P.A. Ryan (Gympie, Qld., Australia) and M. Brown (Paysandú, Uruguay) 231
Evaluation and diagnosis of tree nutritional status in Chinese-fir (*Cunninghamia lanceolata*

(Lamb) Hook) plantations, Jiangxi, China
A.-L. Zhong (Vancouver, B.C., Canada) and W.-Y. Hsiung (Nanjing, Jiangsu, People's Republic of China) 245
Corroborating models with model properties
R.G. Oderwald and R.P. Hans (Blacksburg, VA, USA) 271
Genetic variation in *Eucalyptus diversicolor* F. Muell. in Western Australia and potential gains from selection
R.A. Mazanec and M.L. Mason (Manjimup, W.A., Australia) 285
Early response of *Eucalyptus saligna* to site preparation and fertilisation at Sao Hill, Tanzania
M.L. Mhando, S.M. Maliondo and A.G. Mugasha (Morogoro, Tanzania) 303
Development of a tree improvement program with *Pinus maximinoi* in Colombia
J.A. Wright, L.F. Osorio (Cali, Colombia) and C.C. Lambeth (Hot Springs, AR, USA) 313
Nutrient cycling and acidification of a northwest German forest site with high atmospheric nitrogen deposition
N.P. Lamersdorf and M. Meyer (Göttingen, Germany) 323

Book reviews
Conservation in neotropical forests 355
A tree for all reasons 356
Ecology, economics, ethics 357
Ecosystem rehabilitation 359

Guide for Authors 361

Announcement from the Publisher 367

Author Index 368

Subject Index 370